

Comments submitted by Maryland Smart Meter Awareness to the FCC

In the Matter of Use of Spectrum Bands Above 24 GHz for Mobile Radio Services – including the following Dockets: 14-177, 15-256, RM-11664, 10-112, 97-95

On behalf of Maryland Smart Meter Awareness, I would like to express **strong opposition** to 5G, and any additional frequencies or bandwidths currently being considered by the FCC.

The FCC has let the American people down with its long history of being at the beck and call of industry while completely disregarding public health. But now, the stakes are even higher as the FCC herds an unsuspecting public into accepting the Internet of Everything and its backbone 5G-infrastructure.

5G and the Internet of Everything are **highly misguided** on 5 accounts:

- 1) **Energy Consumption – Wireless communication networks consume far more energy than do wired networks**, so 5G will necessarily greatly increase energy consumption to support the envisioned Internet of Everything and the dense streams of traffic to and from it. As most of our energy is still generated from coal, this will result in a **significant increase in CO2 emissions thus adversely affecting climate change**.
- 2) **Cyber In-security** - 5G and the Internet of Everything will put every one of us at **great risk for cyber attack or hacking**, potentially causing much loss of life. **Wireless networks can never be secured** and are an open invitation to cyber crime, for which **we, the people, will pay for dearly**.
- 3) **Adverse Health Effects** - The recently released Preliminary Results from the NTP Study corroborate thousands of **independent**, peer-reviewed studies showing that radiation is harmful to health. This **might have given the FCC pause** -- But instead, the agency moved headlong into approving 5G. Neither did the FCC solicit input from any other governmental agency that handles health such as the FDA, NIEHS, or the Surgeon General's Office.
- 4) **Impacts on the Environment** – These ultra high frequencies and their incumbent dense infrastructure will negatively impact our environment: 1) (as discussed above) from the increase in carbon emissions resulting from the deluge of wireless radiation the Internet Everything will use, and 2) from the radiation itself, which, at **lower frequencies** has been proven to **adversely impact wildlife**. (As Chair Wheeler points out, no time to conduct studies on the higher frequencies, so that the United States can be “first out the gate.”) No NEPA review was conducted, and neither did the FCC solicit input from the EPA, the Fish and Wildlife Society, or other any other governmental agency that considers environmental impacts.
- 5) **Relationships and Our Humanity** – People are fast losing their ability to connect with one another in the real world as they already spend much of their day ensconced in the cyber world. With nearly every person having 5-6 wireless devices, and most every aspect of their lives housed in the Cloud, as Chair Wheeler envisions it to be in a “5G world”, **5G does not bode well for the future of our children**.

According to Wheeler, “The future has a way of inventing itself.” Without independent study and testing of 5G ***BEFORE it is unleashed on an unknowing and unsuspecting public***, the future that “has a way of inventing itself” is a future many of us won’t want to see.

One final note: Technology has brought great advances to the world, but we have paid dearly for some of them. If the vast majority of our technology infrastructure were fiber or cable, and our devices hardwired whenever possible, digital technology would be welcome by all...except perhaps by the wireless industry.

Respectfully submitted by,

Kate Kheel
Director of Maryland Smart Meter Awareness